

From owner-qrp-1@Lehigh.EDU Sun May 5 22:32:17 1996
From: km@PACT.ORG.PE (Kris Merschrod)
Subject: [8193] 30 meters Sat Nite
Message-ID: <m0uG3di-000TScC@rcp.net.pe>

>From here (Lima, Peru) I was copying many at the low end of 30 Meters last night just after local sunset, but no one copied me! 3 watts should be enough to make it. I did make it to southern Brazil though (PY5CC, Peter ws QRO) before pulling the plug.

CU in there,

Kris
OA4DBO

From owner-qrp-1@Lehigh.EDU Sun May 5 22:32:17 1996
From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
Subject: [8203] 40-9er oscillations
Message-ID: <Pine.OSF.3.91.960505120520.6274A-100000@duke.usask.ca>

I have been using my 40-9er plugged into a cigarette lighter on my car with no problems. However, a few days ago I tried to get a 12 volt source consisting of "Pure Energy" batteries (rechargeable alkaline). Receiving worked ok but whenever I tried to transmit the rig would go into uncontrolled oscillations (Q3 would begin to get hot by the time I had a chance to disconnect the supply).

Various mods suggested:

- a 0.01 cap in parallel with c12
- a 1 K resistor in parallel with RFC5

Has anyone else had similar experiences with the Pure Energy batteries?
If so what fixes worked?

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+-----+
| Brian Buydens, Computing Services, University of Saskatchewan |
| email: Brian.Buydens@usask.ca |
| VE5RDV |
+-----+
| Albert Einstein, when asked to describe radio, replied: "You see, wire |
| telegraph is a kind of a very, very long cat. You pull his tail in New |
| York and his head is meowing in Los Angeles. Do you understand this? |
| And radio operates exactly the same way: you send signals here, they |
| receive them there. The only difference is that there is no cat." |
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+-----+

From owner-qrp-1@Lehigh.EDU Sun May 5 22:32:17 1996
From: Alan Kaul <kaul@netcom.com>
Subject: [8186] 40-9er VX0
Message-ID: <Pine.3.89.9605042337.A5805-01000000@netcom16>

Tom .. FB on the rig, I suspect the VX0 problems in the rig might be based on your L/C. The rewind L (64t on a T-50-2) = approx 20 uH. The original rig used a 15uH coil, and to duplicate it with a T-50-2, you might try about 55 turns. My 40-9er has the stock 15 uH coil and I was getting about 5.5 kHz shift using an 8-to-60pf variable. I changed to a 5-50pf and got about 4.5kHz shift.

Before you consider reducing the size of the coil, you might try tacking a 100pf cap in series with the variable. Using an estimate of 5pf min cap for the variable, that would give you a tuning range of approx 3pf-to-approx-46pf. (Actually 122pf in series with the variable = slightly more than 50pf).

You might see if that changes anything (i.e. if you get to use more of the rotation of the variable). If that works, but you still don't get more than a couple of kHz of tuning, then I'd suggest, you remove a few turns (4 or 5) from the coil and see what that does. If that gives you more, but not as much as you'd like, then consider removing 3-to-5 more turns and see what that does. Etc.

As for your other question about TX offset, Ori, AC6AN, has been working on it. And he's almost ready to post results. But it might involve increasing the size of the regulator chip to 6 or 8V--because it'll take more voltage to make it work. Keep watching for that one.

73/72 and happy to return some help (you sent me the 40-9er schematic on a fax a month or so ago). GL, de alan

Alan Kaul
National Broadcasting Company, Inc.
Burbank, California

Because e-mail can be altered electronically,

the integrity of this communication cannot be guaranteed.

From owner-qrp-1@Lehigh.EDU Sun May 5 22:32:17 1996
From: iapizloj@bicc00.bi.ehu.es (jon Iza)
Subject: [8206] Cascade filter question
Message-ID: <9605051954.AA23907@bicc00.bi.ehu.es>

Cascade gurus out there,
I have a Cascade with a very special illness: On 75 meter it is impossible to get to the lower sideband, even with BFO frequencies of 9.005 MHz. I guess the filter passband has gone berserk. What can I do to fix it, other than getting new crystals and capacitors? What kind of test jig do I need to use to check the crystal frequency? I remember to read on the list something about not to use the typical oscillator...
Let me know by email and I will post the digest with my success of getting it to behave (I hope !).
72 + 73 de
jon, ea2sn

From owner-qrp-1@Lehigh.EDU Sun May 5 22:32:17 1996
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
Subject: [8188] Field Night out
Message-ID: <318c63e2.pandora@pandora.lugs.org.sg>

Hi,

Well, after my last attempt at a night out in the park with one QSO, I thought I should try another. As I was coming back last night I noticed that the moon was full, and I heard that prop condx was supposed to be wierd under such conditions. Don't ask me what the reasoning behind it is (moon spots!) but I just thought, what the heck. So I got back at 8:50 pm local time and packed up the ARK-20, some newly made RG-58 feed, my usual 20m dipole, newly charged 12V 6.5AH Gell Cell, Bencher and I was off. Got to the park across the road and headed for the kids play ground. Got out the stuffs and rigged up the dipole over the swing, lamppost and a tree. I then drew the line feed to a comfortable (relatively) spot where I sat down and started feeding the mosquitoes, oh, I mean, making QSO's. Listened for more than an hour and called CQ here and there. Heard lots of stations, some very loud. E21CJN was running a mini pileup. Heard some regional stations and even A71AN. Lots of Russian stations too. Anyway I kept trying, calling, but soon I got the feeling that my peanut signal just wasn't making it to the stations I was hearing. The generally poor propagation didn't help much either.

Finally at about 10:30 pm I was just about getting tired, hot and bothered. It was dark, humid, there was lightning in the distance and clouds were gathering. Sand was getting in my toes and my leg was getting cramped from squatting too long. I decided maybe I should call it a night but it seemed such a waste because I had spent a good 1.5 hours out without a QSO to go home with. As a last ditch effort, I figured I'd try using the short feed (abt 2m long) just before I packed up. Jumped up and down and finally got the feed changed. Tuned around a bit and heard UK8IWW calling CQ USA. I answered real slow anyway, even though I was not USA, thinking no one would hear me. Then he sent a QRZ? SO I went again, real slow UK8IWW de 9V1ZV 9V1ZV/QRP K. After doing this quite a number of times he went 9V1ZN/QRP de UK9IWW UR RST 559 NAME IS DIMA QTH IS SAMARKAND PSE UR CALL AGN CALL? BK. So I sent my call, his RST 599, my name Dan, and QTH Singapore. Still he did not seem to get it. Turned down the keyer speed further and sent my call about 5 times repeating the ZV part. He came back saying QRN so after a good 10 minutes he finally got my call right and asked for his RST. That too took a good few tries before he got it. Finally he sent QSL info and with that he gave up. At least we made the QSO.

But man, this has to be one tough QSO. He was loud but I really doubt I was 559 at his end. His sending was perfect so I figure his copying can't be that bad. Still, I was now one contented puppy, at least I had a QSO to go home with. I was thinking of trying again tonight but the prospect of going through it all just for one QSO is a little daunting I must admit. Sheesh, I guess this just ain't America. Ah well...

73 de 9V1ZV Daniel

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Daniel Wee | daniel@pandora.lugs.org.sg
9V1ZV | daniel.wee@f516.n600.z6.fidonet.org

From owner-qrp-l@Lehigh.EDU Sun May 5 22:32:17 1996
From: Phil.Lefever%tcrc.vware.mn.org@vware.mn.org (Phil Lefever)
Subject: [8189] FT-243 Crystals
Message-ID: <bcf_9605050600@tcrc.vware.mn.org>

High all QRP'ers. I recently purchased an old Heathkit radio and I would like to find some crystals to put in on novice band CW. I have been to a couple hamfests and the like with none showing up. If someone out there could send me the phone # for JAN crystals or any other good source I would be grateful.

I would also consider used if anyone would like to part with some of their

stock.

Reply direct to me at:

phil.lefever@tcrc.vware.mn.org

Thanks & 73's De Phil....KBØNES

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|Fidonet: Phil Lefever 1:282/3027

|Internet: Phil.Lefever@tcrc.vware.mn.org

|

| Standard disclaimer: The views of this user are strictly his own.

| Twin Cities Repeater Club Amateur Radio Library BBS.

| Minneapolis, MN

From owner-qrp-1@Lehigh.EDU Sun May 5 22:32:17 1996

From: JerryK0DU@aol.com

Subject: [8191] Good DXING on 30 last night!

Message-ID: <960505100630_484637376@emout17.mail.aol.com>

JW5HE,OZ7C,DK5PA,OK2RZ A35MN,VK4SS ALL ON 2 WATTS ZL1BDN ON 1 WATT YA HOO !
QRP PLUS (REDUCED POWER) 52 FT VERTICAL (HME BREW) ON SEPTIC FIELD .
LOTS OF FUN ! JERRY K0DU NR DENVER

From owner-qrp-1@Lehigh.EDU Sun May 5 22:32:17 1996

From: Joe Gervais <vole@primenet.com>

Subject: [8217] Ham radio investment

Message-ID: <199605060210.TAA27323@primenet.com>

Howdy Folks,

Been busy filling out QSL cards from QRP TTF, so I haven't had a chance to build an antenna for 30m yet. Instead I've been dodging the contests and working the Novice portion of 40m. Plenty of contacts up there, both young and old. Last night I worked Jevon, KE6YLH. His (her?) rig was an old Swan which was drifting a bit, but not too terribly. Seemed as if he was experiencing "CW shock", which is what I call the key-freeze I went through when I was a new ham making my first journey into the HF

bands. Kind of like a rabbit staring at the headlights...
Anyone else remember that? :)

Anyway, he signed off pretty quick, so I figured I'd send a QSL to give some encouragement. Sniffed around the FCC database to find the address. Turns out that Jevon was born in 1984. Yep. 12 years old! Not only that but as best I could tell, he only got the call five days ago.

OK Joe, there's a point here, right? Well yes. I'm not here to whine at everyone, but if you haven't done so in the past, please consider spending a night or two a month in the Novice portion of the bands. Think of it as the QSO equivalent of a 401K retirement plan. Invest a little time here and there to make sure that we all have someone to chat with in the years ahead. ;-)

This public service announcement has been brought to you by a guy who's supposed to be out BBQ'ing salmon steaks for dinner. We now return you to your regularly scheduled program. Hope I didn't sound too much like Sally Struthers...

See you all on 30m!

7.3 de KC7NEV,

-Joe, vole@primenet.com, AZ ScQRPion #7

PS- Anyone know if tarragon goes well with salmon?

From owner-qrp-1@Lehigh.EDU Sun May 5 22:32:17 1996
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
Subject: [8213] Help me pick a rig
Message-ID: <318d43e2.pandora@pandora.lugs.org.sg>

Hi Gang,

I am about to buy me a rig which I hope will be good for QRP also. I am looking at:-

ICOM

IC-728

IC-706

Kenwood

TS-450SAT

TS-50

I can also get others too. I'd like to hear your advise. Are there things I should avoid in particular? Which one is a good rig? Are these easy to modify for QRP? Thanks.

73 de 9V1ZV Daniel

--

Daniel Wee | daniel@pandora.lugs.org.sg
9V1ZV | daniel.wee@f516.n600.z6.fidonet.org

From owner-qrp-1@Lehigh.EDU Sun May 5 22:32:17 1996
From: larsennc@alaska.net (Nancy-KL7NY/Jim-AL7FS/Julian-WL7MP)
Subject: [8211] ICOM 706 - 250 Hz versus 500 Hz
Message-ID: <v01510101adb267e0de25@[206.149.66.114]>

Greetings from Anchorage,

I am about to own an ICOM 706. This rig will be for use in the motorhome and especially for our trip to the Yukon Territory in late June. I have always been a bit hesitant about 250 Hz filters because of the way they worked in the "old" days.

I would appreciate feedback on 250 vs 500 Hz. Are they too narrow at 250 Hz? What are your thoughts and comments on this one. Which one should I buy?

Thank you.

73,

Jim Larsen
AL7FS
Anchorage, Alaska

From owner-qrp-1@Lehigh.EDU Sun May 5 22:32:17 1996
From: Ken Newman N2CQ <103464.1355@CompuServe.COM>
Subject: [8197] NEST Antenna Users?
Message-ID: <960505152954_103464.1355_IHI38-1@CompuServe.COM>

All.....

The closer Field Day comes, the more I have the need for a better

antenna for QRP. The "72" Newsletter (Jan 96) article "New England Simple Titan (NEST)", or Nessie antenna, sounds interesting for this. The two phased inverted V dipoles gives a good gain and F/B ratio. Is there anyone who has used one on the field? The author, Paul Stroud - AA4XX wrote a fine article and I'd like to know who used it in real field setup, outside his FD exploits in the article. Thanks in advance for your results.

72 de Ken - N2CQ NE-QRP #458

From owner-qrp-1@Lehigh.EDU Sun May 5 22:32:17 1996
From: robert bell <rbell@uniserve.com>
Subject: [8184] Shops in Anaheim
Message-ID: <96May4.223450pdt.30821-145+955@haven.uniserve.com>

Hi I would just like to say thank you to everyone who replied to me about ham shops in Anaheim, I will certainly be checking out HRO and A&A (as long as I can sneak away without the wife catching me, she gets very nervous when I'm anywhere near a ham store, I honestly can't think why -- tee hee :). I just about have all my qrp gear ready to go, just hope I get a room with a balcony and get the chance to work lots of qrpers. Anyway, thanks again and happy qrping!

72 Rob VE7IGZ

From owner-qrp-1@Lehigh.EDU Sun May 5 22:32:17 1996
From: Tom Bowman <tbowman@nbn.net>
Subject: [8198] Sorry...
Message-ID: <2.2.16.19960505153549.25d791fa@nbn.net>

Post about an hour ago was supposed to be directly to Alan, not to the List. Sorry for cluttering your mailboxes. Didn't have enough coffee this morning...

Tom Bowman, WA3REY, Mount Gretna, PA 17064 tbowman@nbn.net

From owner-qrp-1@Lehigh.EDU Sun May 5 22:32:17 1996

From: "GaryNye" <gcnye@brutus.bright.net>
Subject: [8195] spice
Message-ID: <199605051448.KAA20506@brutus.bright.net>

Did anyone ever write an article on starting out using SPICE or
PSPICE? Does anyone know of any recommended reading for someone who
would like to learn how to use PSPICE? There is no doc file with the
demo. Any help would be appreciated.

72 & tnx

From owner-qrp-1@Lehigh.EDU Sun May 5 22:32:17 1996
From: robert bell <rbell@uniserve.com>
Subject: [8204] Ten Tec Powermite for sale
Message-ID: <96May5.112851pdt.30778-146+1142@haven.uniserve.com>

HI I have a Ten Tec Powermite PM3a qrp transceiver which is in pristine
fully working condition and comes with the manual that I would like to trade
for an Outbacker mobile antenna(preferably a Perth),I would also consider
trades for other qrp rigs and equipment.

Rob (604)853-5870

From owner-qrp-1@Lehigh.EDU Sun May 5 22:32:17 1996
From: Byron8LCZ@aol.com
Subject: [8209] TMPS
Message-ID: <960505160625_287651112@emout14.mail.aol.com>

In a message dated 96-05-05 02:50:42 EDT, paul1@wizard.ucs.sfu.ca (Paul
Erickson) writes:

>Anyone else catch the A35MN on 30mtrs tonight?
>
>cheers, Paul
>VE7CQK

No, but heard the ZL1BD and the AL7IK, couldnt work them though.(sometimes it
pays to live on the west coast) stayed up till 1:30 am, until my brain
stopped processing data and had a head crash, (now i have to reformat it)
then crawled off to bed. this TMPS is fun !
Even worked Delaware and S. Dakota

72, Byron WA8LCZ

TMPS:

14 states, 2 countrys (VE4, VE7, VE9), 1 continent

Heard 20 states last night, worked 11, incredible ! and conditions are supposed to be terrible?

solar flux at 68, the lowest I've ever seen it.

From owner-qrp-1@Lehigh.EDU Sun May 5 22:32:17 1996

From: Paul Erickson <paul1@wizard.ucs.sfu.ca>

Subject: [8185] TMPS - A35MN

Message-ID: <9605050647.AA08372@wizard.ucs.sfu.ca>

Hi Everyone,

Anyone else catch the A35MN on 30mtrs tonight?

cheers, Paul

VE7CQK

email: paul1@wizard.ucs.sfu.ca

VE7CQK TMPS 1996 Qs=011 States=06 Confirmed=00 DX=07

From owner-qrp-1@Lehigh.EDU Sun May 5 22:32:17 1996

From: bhopkins@polarnet.com (Bruce Hopkins - KL7JAF)

Subject: [8187] TMPS - AK to HI

Message-ID: <v01530500adb2046099de@[204.119.24.162]>

Hi Gang,

Greetings from the "Frozen Chosen"...

From the looks of the prop forecast the next few days should be good up our way... I'am hearing quite a few different Alaska stations on so your pickens should be good... Heard JW5HE at the bottom of the band with a pileup also heard ZL1MS and some JA's this evening...

At 0518z I heard a very weak call near the bottom of the band caught CQ and QRP and I thought KH6... Listened some more and sure enough KH6JOI/qrp... I thought no way, but gave it a try anyway... It was a tough 15 minutes with lots of people stepping on us but we made Alaska to Hawaii both running <5w to dipoles... Who was it that proposed the theory "RF Gotta Go Somewhere"... It did and Ray and I are two happy campers...

I am planning on putting a full wave loop off my 60' tower oriented towards the lower 48... Before I go to the effort, anyone know of a better wire antenna to get a little push that direction ???

Take care gang and I will be looking for you on 30m... Three days off starting Monday, hope to get something cut and up for 30...

72/73/oo's - Bruce * KL7JAF

QRP-L #380 QRP-ARCI #9061 G-QRP #9181 Norcal #1543 ARS #14
ISSB #14548 TFO #359 McPig #003

E-Mail: bhopkins@polarnet.com

Web Page: <http://www2.polarnet.com/~bhopkins>

KL7JAF TMPS 1996 Qs=004 States=02 Confirmed=00 DX=03
 HI CA

"Every Man should learn to play the Flute,
but not well..."

From owner-qrp-l@Lehigh.EDU Sun May 5 22:32:17 1996
From: Pete Meier WK8S <pmeier@sun.tir.com>
Subject: [8190] Tuner/Keyer Panel layout
Message-ID: <318BC4F1.166@tir.com>

This is a multi-part message in MIME format.

-----453A5AC75663
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I have found an easy way for me to do panel lettering is to create a

AAAA/wAAAAAAPb2AAAAAAD/////////AAAAAAAAAAAAAAD/9fb19vb19fb19vX19vX29fb1
9f8AAAAAAAAAAAAAP/2APX19fUAAPUAAPb19fX29QD1/wAAAAAAAAAAAAA//X1AAD1AAD1
AAD1AAD19fX19fX/AAAAAAAAAAAAAAD/9vUA9fUAAPX19QD1APUA9QD1AP8AAAAAAAAAAAA
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PO0v0AU3Y1AC/RxkC53L0poQwww13JDDDDj0MhQUADs=

-----ad33DF27D37DBB--

-----453A5AC75663--

From owner-qrp-1@Lehigh.EDU Sun May 5 22:32:17 1996
From: thom.lacosta@fido261.qis.net (Thom LaCosta)
Subject: [8196] Where on 30 ?
Message-ID: <f5d_9605051104@fido261.qis.net>

Hello All!

Where's a good place to find all the qrp folks on 30? I listened around yesterday evening (2000 hours east coast time)...didn't hear anyone signing qrp...but I did work a SP3 with the drake cranked down to 5 watts into an end-fed piece of wire with yee olde tuner.

Thom LaCosta
N3WDV
Our Business is Business
--

|Fidonet: Thom LaCosta 1:261/1352
|Internet: thom.lacosta@fido261.qis.net
|Standard disclaimer: Take a Naugha to Lunch today!

From owner-qrp-1@Lehigh.EDU Sun May 5 22:32:17 1996
From: Steven Wilson <randyw@crl.com>
Subject: [8205] Re: 40-9er oscillations
Message-ID: <Pine.SUN.3.91.960505112118.5564A-100000@crl12.crl.com>

I hv had similiar problems with battery operated rigs. Sometimes the internal reistance of the battery will limit peak current and we get the oscillations. Normally this happens when the batteries life is about up. Connect a hi value cap (470 uf or larger) in parallel with the battery and the oscillations go away. You will often get a chirp just before the battery drops to the oscillation level. de stan ak0b

From owner-qrp-1@Lehigh.EDU Sun May 5 22:32:17 1996
From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
Subject: [8218] Re: 40-9er oscillations
Message-ID: <Pine.OSF.3.91.960505202115.15590B-100000@duke.usask.ca>

On Sun, 5 May 1996, Steven Wilson wrote:

> I hv had similiar problems with battery operated rigs. Sometimes the
> internal reistance of the battery will limit peak current and we get the
> oscillations. Normally this happens when the batteries life is about
> up. Connect a hi value cap (470 uf or larger) in parallel with the

There is a 220uF cap in parallel with the battery. If I understand correctly I should remove this one and replace it with a 470uF, or would be even better to place it in parallel with the 220uF cap?

> battery and the oscillations go away. You will often get a chirp just
> before the battery drops to the oscillation level. de stan ak0b
>
>

```
+-----+
| Brian Buydens, Computing Services, University of Saskatchewan |
| email: Brian.Buydens@usask.ca |
| VE5RDV |
+-----+
| Albert Einstein, when asked to describe radio, replied: "You see, wire |
| telegraph is a kind of a very, very long cat. You pull his tail in New |
| York and his head is meowing in Los Angeles. Do you understand this? |
```

| And radio operates exactly the same way: you send signals here, they |
| receive them there. The only difference is that there is no cat." |
+-----+

From owner-qrp-1@Lehigh.EDU Sun May 5 22:32:17 1996
From: Tom Bowman <tbowman@nbn.net>
Subject: [8192] Re: 40-9er VXO
Message-ID: <2.2.16.19960505141133.1a37e400@nbn.net>

Thanks Alan for the quick reply. I have more range now that I put the toroid in the circuit then I had with the stock 15uH inductor. Last weekend you asked me how I was progressing on the 49er and I hesitated in answering because I was still pretty far away from where I want to be....Now, if I can get the range you have and can add the offset, I'll be happy....Glad to know Ori is working on the offset. And also glad to know your rig is working.

Just one question: Did you breadboard your rig after I sent the schematic or did you use a Rev A or Rev B PC board from Norcal. The reason I ask is I'd think the PC boards in a "simple" circuit like this would yield more predictable results, like the VXO range. That's why I think I did something wrong, this end.

But after changing both the xtal and the NE602, I am scratching my head....
Thanks again, Tom

At 12:02 AM 5/5/96 -0700, Alan Kaul wrote:

>

>

>Tom .. FB on the rig, I suspect the VXO problems in the rig might be
>based on your L/C. The rewind L (64t on a T-50-2) = approx 20 uH. The
>original rig used a 15uH coil, and to duplicate it with a T-50-2, you might
>try about 55 turns. My 40-9er has the stock 15 uH coil and I was getting
>about 5.5 kHz shift using an 8-to-60pf variable. I changed to a 5-50pf and
>got about 4.5kHz shift.

>

Tom Bowman, WA3REY, Mount Gretna, PA 17064 tbowman@nbn.net

From owner-qrp-1@Lehigh.EDU Sun May 5 22:32:17 1996
From: Steve Miller <kg7pv@teleport.com>
Subject: [8199] Re: Good DXING on 30 last night!

Message-ID: <1.5.4.32.19960505155419.00672994@mail.teleport.com>

At 10:06 AM 5/5/96 -0400, you wrote:

>JW5HE,OZ7C,DK5PA,OK2RZ A35MN,VK4SS ALL ON 2 WATTS ZL1BDN ON 1 WATT YA HOO !
> QRP PLUS (REDUCED POWER) 52 FT VERTICAL (HME BREW) ON SEPTIC FIELD .
> LOTS OF FUN ! JERRY K0DU NR DENVER

Hi Jerry! I also go JW5HE and OZ7C but was qro with 5 watts :-) Good
going with 1 watt. Yep, QRP dx is a blast. 73

Steve Miller KG7PV

Portland, Or (packet kg7pv @ k7iqi.or.usa.noam)

Norcal # 308, QRP-L #109

From owner-qrp-l@Lehigh.EDU Sun May 5 22:32:17 1996

From: Arthur Moe <kb7ww@aracnet.com>

Subject: [8200] Re: Good DXING on 30 last night!

Message-ID: <199605051550.IAA18418@trapdoor.aracnet.com>

Yes and this morning 9M2T0 and 3 Ja's

At 10:06 AM 5/5/96 -0400, you wrote:

>JW5HE,OZ7C,DK5PA,OK2RZ A35MN,VK4SS ALL ON 2 WATTS ZL1BDN ON 1 WATT YA HOO !
> QRP PLUS (REDUCED POWER) 52 FT VERTICAL (HME BREW) ON SEPTIC FIELD .
> LOTS OF FUN ! JERRY K0DU NR DENVER
>
>
>
>

AT THE END OF THE OREGON TRAIL

Arthur Moe

A.R.S. KB7WW

QTH: Oregon City, Or.

kb7ww@aracnet.com

artmoe@agora.rdrop.com

ARRL - Life

SMIRK #733

QRP ARCI

QRP-1 #290

TMPS 1996 Q's:0006 States:05 Confirmed:000 DX:02

AK, AZ, CA, CO, HI

From owner-qrp-1@Lehigh.EDU Sun May 5 22:32:17 1996
From: "'AB7HI' Stephen Lee" <slee@u.washington.edu>
Subject: [8207] Re: Good DXING on 30 last night!
Message-ID: <Pine.A32.3.92a.960505103045.123258A-100000@homer20.u.washington.edu>

Jerry was like the energizer bunny last night, hi hi. He just kept going and going (after that DX)! W6PM, Rolf, operating QRO was also getting good DX. Now there's a Ham with experience! He's 81 and been a Ham for 50 years....wow!!!

At 47 degrees north (Northeast Tacoma, WA) there was just too much QSB for good copy of European DX. At about 35 degrees north the DX line must have been awesome! I copied the US replies. Did copy ZL1CH from far out in the Pacific (Auckland, NZ) but no contact. The DXers were working 30 meters mostly between 10.102 and 10.107 MHZ.

Logged another QRP TMPS state and a 1 hour rag chew with Harry, W6LCM. We maintained solid copy through all kinds of QRM. Harry's been a Ham since 1934...can you imagine???? He was using a homebrew rig at 4 watts and at 78 years had one of the finest fists I ever heard. His QTH is Las Vegas, NV, so listen up for his call!!!

The 30 meter DX hunters were out in force and up late last night. I finally managed a DX success with Toshi, JA0RUG at 6:40 UTC. Closed it down for some sleep; woke up around 9:30 UTC and again powered up the QRP Plus. Heard a BV7 call but it was very warbly. Just couldn't connect. The band started closing down here about 10:00 UTC. By 10:18 UTC there was only one station calling CQ. It was Seargent Horn, W5IB, another of the experienced old timers. I tried and tried to connect but no joy...the band had closed.

Looking to repeat the performance tonight! 73 and good DXing all.
Stephen Lee, AB7HI
slee@u.washington.edu

PS Hey Dan'l, that moonrise last night was beautiful wasn't it!!!

From owner-qrp-1@Lehigh.EDU Sun May 5 22:32:17 1996
From: Clark Savage Turner WA3JPG <turner@safety.ICS.UCI.EDU>
Subject: [8219] Re: Help me pick a rig
Message-ID: <12925.831351163@safety.ics.uci.edu>

> I am about to buy me a rig which I hope will be good for QRP also. I am
> looking at:-

> Kenwood
> TS-450SAT

Of those you mentioned, this one seems to have the "best", most versatile receiver (the thing I consider most important in a rig). The 450 has a good standard filter selection, and is easily improved to pretty good specs with IRCI filters or other suitable filters. You can have more than a single filter in line, and you can choose how much filtering you would like. I have the 440 and love the thing (and I also own a Ten Tec OMNI VI, but the 440 with a couple of extra quality filters is very comparable except in very special circumstances.)

Just an opinion. Other rigs are wonderful, too. Most are pretty darned good. I am a filtering freak, and that is the big factor for me.

Clark
WA3JPG

From owner-qrp-1@Lehigh.EDU Sun May 5 22:32:17 1996
From: JKXM17A@prodigy.com (ALLEN SMITH)
Subject: [8214] Re: HW-9 Problems
Message-ID: <199605060014.UAA18840@mime3.prodigy.com>

A friend, AI7C, Wayne, sent me this list of problems with his recently purchased HW-9. If any other HW-9 owners out there would like to exchange some ideas with Wayne, his email address is: 102006.1526@compuserve.com

--[FORWARDED PRIVATE MESSAGE]-----

Subject: HW-9 PROBLEMS
Date: 05/05/96 02:16 AM

1) VFO drift that out-performs any of my vintage tube rigs. The VFO drifts up (operating freq therefore down) a full 1,000 Hz in an hour. Can't be heat, there isn't any sitting on the workbench not transmitting. A few hundred hertz in the first ten minutes is OK, and a couple hundred hertz per hour thereafter is acceptable. But 1,000 hertz makes me feel like I'm using an old Gonset.

This
can't be the norm. I've tried the usual fixes like assuring no spring
tension on
the VFO coil, no hot components... any ideas? And --
un-temperature-compensated oscillators normally drift down not up. Mine
drifts
up, and the parts list doesn't indicate there is any temp-compensation of
any sort.

2) Output frequency varies about 250 Hz when transmit output power is
varied
from 1/2 watt to 5 watts. Yet, VFO, BFO, and HFO frequency counts remain
constant. Only the injection frequency varies, which I don't understand
because
it is determined by VFO, BFO and HFO. In other words, two plus two is four
at
half-watt, but two plus two is ten at high power. Hmmm, must be missing
something.

Basic questions are: does my HW-9 differ from others, and if so, anybody
figured
out why? Really like the radio, and would like to be sure it's running like
it's 'sposed to.

Thanks -- Wayne AI7C

----- Original message header follows -----
>From 102006.1526@CompuServe.COM Sat May 04 02:17:09 1996 [PIM 3.2-030.47]
Received: from dub-img-6.compuserve.com (dub-img-6.compuserve.com
[198.4.9.6]) by pimaia3w.prodigy.com (8.6.10/8.6.9) with ESMTP id CAA37864
for <JKXM17A@PRODIGY.COM>; Sun, 5 May 1996 02:14:38 -0400
Received: by dub-img-6.compuserve.com (8.6.10/5.950515)
id CAA13757; Sun, 5 May 1996 02:14:03 -0400
From owner-qrp-1@Lehigh.EDU Sun May 5 22:32:17 1996
From: "Wayne A. Arnett" <102006.1526@CompuServe.COM>
Subject: HW-9 Problems
Message-ID: <960505060416_102006.1526_EHT47-4@CompuServe.COM>

----- End of message -----

From owner-qrp-1@Lehigh.EDU Sun May 5 22:32:17 1996
From: launerb@crl.com (William H. Launer)
Subject: [8201] Re: Power Supply source
Message-ID: <v01520d01adb289cf4c5b@[192.0.2.1]>

qrp-l gang,

Glenn (AE0Q / V31RY) reminded me about the "minimum load" requirements of the typical switcher power supply. I should have remembered - in my last job at McDonnell Douglas, I interfaced with the power supply designers, and that is a typical problem with switchers - they don't like to be run unloaded.

Typically, the highest rated output is used for primary regulation (in this case the +5v), and the rest of the output voltages follow it. I tried various loads on the +5v output, starting with one #47 lamp, then increased it to 2 lamps, and ended up with a 5 Ohm ww resistor (1 Amp load). With the 1 Amp load, I can step the +12v output from no-load to about 2 Amps, and the voltage only drops to 11.77v. The next step is to mount the resistor permanently inside the p.s. housing. The fan will help dissipate the 5 watts from the resistor.

The addition of the load resistor makes it a useful, inexpensive tool for the bench (it looks like it would power a qrp rig very nicely, also).

CUL, Bill

Bill Launer
St. Charles, MO
launerb@crl.com
wb0cld@wb0cld.ampr.org [44.46.66.25]
qrp-l #279 qrp arco #3551

From owner-qrp-l@Lehigh.EDU Sun May 5 22:32:17 1996
From: svein@eci1.ucsb.edu (Svein Vetti)
Subject: [8208] RE:spice
Message-ID: <9605051955.AA23501@oleander.ucsb.edu>

About Spice reference material:

I have been using the book "Spice" by Paul W. Tuinenga which is OK.
It is also pretty cheap.

I have some demo files if some of you are interested (amps,oscillator)

-Svein Vetti

From owner-qrp-l@Lehigh.EDU Sun May 5 22:32:17 1996

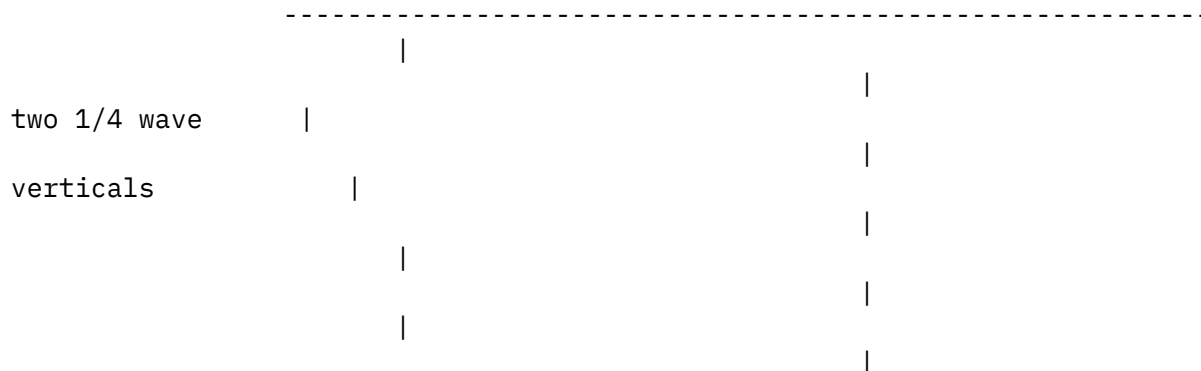
From: JessQRP@aol.com
Subject: [8194] Re: TMPS - AK to HI es antenna
Message-ID: <960505102710_390950317@emout15.mail.aol.com>

Hi there,

Glad to hear that you are doing better on 30. As far as antennas go, you might give the half square a try. Very simple to build and erect and does not have to be a mile high to work well. If you don't know the configuration it goes like this.

You will need a full wave total of wire. The half square is to inverted verticals suspended from a half wave horizontal.

Half Wave horizontal



Hook the closest 1/4 wave vertical to the ground shield of 50 ohm coax. This first 1/4 wave vertical is a separate wire from the rest of the antenna. The 1/2 wave across the top is a continuous piece of wire hooked to the far 1/4 wave down leg. Just put an insulator at each corner. On the 1/4 wave side that is connected to the ground shield, attach the ground to the 1/4 down leg and the coax center to the horizontal 1/2 wave. On the far side, just loop the wire and hook it to the insulator and make sure that the length that hangs down is 1/4 wave. Suspend the antenna in an orientation for preferred direction. The antenna acts as a pair of phased verticals and the direction of fire is broadside to the verticals or out of the square at 90 degrees to the horizontal wire plane. If you hang it east west then the direction of fire will be north south. This antenna will give about 4 db of gain in both directions of fire with fairly deep nulls off of the ends. Since it is phased verticals, the angle of radiation will be fairly low. The minimum height that the vertical ends should be off of the ground is about six inches. That means

that if you cut the antenna for 30 meters that the minimum height that it would need to be off of the ground is about 30 feet! You adjust for lowest SWR by trimming or lengthening the ends of the verticals. I just cut the ends a little long, about six inches, and then tie the excess back onto the other wire with wire ties. That way if I make a mistake in the length, no worries, the wire is still there to pull back out, sorta like a sliding SWR adjustment. The designed low SWR point is about 1.4 : 1, but you can tweak it lower with a matcher. The other thing to watch for is to make sure that the vertical elements lie in the same vertical plane as the horizontal 1/2 wave, this will affect the SWR as well. You can tilt the vertical elements out a little up to about 30 degrees if you cannot get enough height to hang them straight. As far as being a DX only antenna, hockey sticks! I had one of these up for about 6 months and the performance was outstanding. Local and DX contacts came easier. About 2-3 S units on receive over a dipole and single vertical (R 7) and 1-3 S units louder on transmit over the reference antennas. Also had a delta loop up oriented vertically for a bit and the half square was consistently better and did not have to be hung as high, a real plus for me here in suburbia.

Give it a try, only cost me 5 bucks to build mine, I used 18 ga. stranded insulated wire and it worked great. If you don't like it, hook the two ends of the verticals together and viola! instant full wave loop! The gain of the loop is about 2 db so the half square should give you about 2 db over the loop.

Best
Jess NOTFI

From owner-qrp-l@Lehigh.EDU Sun May 5 22:32:17 1996
From: "Paul R. Valko" <prvalko@Oakland.edu>
Subject: [8215] Re: Tuner/Keyer Panel layout
Message-ID: <Pine.OSF.3.91.960505212536.22633A-100000@saturn.acs.oakland.edu>

On Sat, 4 May 1996, Pete Meier WK8S wrote:

> I have found an easy way for me to do panel lettering is to create a
> layout on the computer with a drawing program and then use it's mirror
> command to "flip" the image so it prints out on the "back" side.

Those of you attending the QRP bash at the last Dayton Hamvention(tm) saw that technique as used on my NorCal40a. I also labeled the read panel (as Pete suggested) and even "personalized" it by including my call and the date of the first QSO made on the rig!

The clear-overlay through a laser printer works great, but I can't take credit for it as somebody ELSE on QRP-L suggested that method in the late

winter of 1995!

This group is great. I love you, man.

73! =paul= wb8zjl

From owner-qrp-1@Lehigh.EDU Sun May 5 22:32:17 1996
From: "Arjen Raateland, SYKE/YV, puh. 90-4030 0457" <Arjen.Raateland@vyh.fi>
Subject: [8210] Re: Windom antenna
Message-ID: <01I4D5HC6V988Y53VZ@vyh21.vyh.fi>

> I have been running both single and open wire feed as well as 300 ohm TV
> line for many many years and the windom is very forgiving. You will need
> a balun or antenna tuner with it. A good rule of thumb is feed it 11 ft
> off center if cut for 40 meters and feed it 22 ft off center if cut for
> 80 meters. Length is 134 for 80 meters and 67 ft for 40 meters. It will
> work on 20 meters when cut to either band. Does not work well on 30
> meters. Feed it the same spot if single wire or open line feed.

What is the purpose of feeding a 40 meter length wire off-centre? If
you have the space to put up a length of wire like that and are going
to use open line to feed it, why not just feed it in the middle and
use the tuner which you seem to need anyway?

Doesn't centre feed give the best balance and therefore the least
possibility of RFI in the shack? An RF ground or counter poise
(separate for every band!) is not needed this way, either.

Do I overlook something here apart from the practical point that
tuners specifically designed to work with balanced lines seem to be a
bit thin on the ground?

Arjen Raateland, OH2ZAZ

Finnish Environment Institute, Helsinki, Finland
SAS Support
EMAIL: Arjen.Raateland@vyh.fi
tel. +358 0 4030 0457
fax +358 0 4030 0490
..-. -.-

From owner-qrp-1@Lehigh.EDU Sun May 5 22:32:17 1996
From: Steven Wilson <randyw@crl.com>
Subject: [8212] Re: Windom antenna

Message-ID: <Pine.SUN.3.91.960505161101.17218A-100000@crl2.crl.com>

The windom was big in the days of the PI network output in transmitters. They could easily match the 300 - 450 ohm feed line, or single wire feed. They did not do well with balanced feed. Also very few TV sets in those days.

The balanced Zepp is the better way to go if you have a good antenna tuner.

From owner-qrp-1@Lehigh.EDU Sun May 5 22:32:17 1996

From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>

Subject: [8216] Re: Windom antenna vs. center-feed

Message-ID: <Pine.SOL.3.91.960505210012.28889B-100000@utkux4.utcc.utk.edu>

Ran some models of both a centerfed dipole and a Windom on NEC-2. I used 40 meters (67') at 7.15 MHz #14 copper wire for convenience. Results can be extrapolated to other lengths.

1. Pattern: Feeding the Windom up to 12.75' off center has no measurable effect on the pattern, either on free space models or at various heights above ground. The patterns are identical. (Even end fed, the pattern offset is a mere 0.03 dB.) A half-wave length long antenna has essentially the same pattern, wherever along it one places the feedline. The pattern changes more radically with height above ground. At a 35' height for a 40-meter antenna, the pattern is an oval, with maximum radiation at 60 degrees upward. At a height of 67' (about a half wavelength up), the pattern is like a peanut, with maximum radiation at about 29 degrees up.

2. Feedpoint impedance: As one moves outward from the centerpoint, the impedance rises from about 70 ohms to about 100 ohms at 12.75' outward from center. If initially resonant, it remains resonant (i.e., little or no reactance). However, at heights below 1 wavelength, the feedpoint impedance will change a good bit. Between 35' up and 67' up with a feedpoint 10' out from center, the feedpoint impedance changed 20 ohms resistive and 30 ohms reactive.

3. Why a Windom? The sole reason for a Windom is the ability to set up the feedpoint for a common feed system that requires no adjustment on the lowest band and on even harmonics. There may be for some a mechanical reason for a windom, for example, to place the feedpoint where it makes a shorter straight run to the operating position. There is no advantage to a windom in performance as an antenna relative to an antenna of the same length fed at a different point--like the center.

Center feeding for multiband operation is likely to yield better results on odd harmonics and on WARC bands, relative to finding ATU settings for efficient power transfer and best matching. Even harmonics are also usually no problem for an ATU. Hence, if using an ATU is not problem and center feeding is mechanically feasible for a yard layout, then center feeding is usually simplest.

For a single horizontal wire of a given length, the feed system does not change antenna pattern or basic performance (although, a badly chosen or maladjusted feed system can adversely affect performance by not transferring power effectively). A half wave wire performs like a half wave wire, whether we call it a Windom, Zepp, or dipole. A 102' piece of wire performs like a 102' piece of wire, whether we call it a nonresonant multiband dipole or a G5RV.

Rules of thumb, whether you pay \$100 for a kit or make your own from RS wire: 1. Get the antenna as high as feasible. 2. Make the antenna as mechanically sound as possible. 3. Make all electrical connections secure and durable, and able to withstand the chemical soup called the atmosphere. 4. Clean and maintain the antenna periodically--at least once per year. Remember: wire and feedline age, but so slowly that we may not notice the decreasing performance until we do notice that the other operator is making all the contacts we used to make.

Most of the claimed outstanding performance in advertising testimonials for various configurations of single wire antennas comes from attention to the installation details the manufacturer provides and which we tend to overlook in quicky home brew installations, not from any special difference in the antenna patterns for equal length pieces of wire up the same number of feet.

Incidentally, the single-wire fed Windom is not a horizontal antenna, but essentially a vertical with an unbalanced flat-top, which produces some horizontally polarized radiation, but at lower antenna current levels than the vertical portion of the antenna--which has traditionally been called a single-wire feeder, but which radiates like any other vertical radiator. Radiation in the shack from this arrangement is like radiation from any end-fed antenna--it likes a ground plane or counterpoise. Parallel fed Windoms--or even End-fed Zepps--show little imbalance between the parallel lines, either in practice or in models, despite some of the abstract arguments for imbalance. If an end-fed Zepp or parallel fed Windom shows excessive feedline imbalance resulting in shack RF, the most likely cause is less-than-optimum feedline installation--which would yield the same effect even for a center-fed antenna.

Take your time with antenna installation, no matter how basic the design. The better-installed antenna performs better longer.

-73-

LB, W4RNL

From owner-qrp-1@Lehigh.EDU Sun May 5 22:32:17 1996
From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
Subject: [8202] Re: You may be an engineer if....
Message-ID: <Pine.OSF.3.91.960505113333.6128B-100000@duke.usask.ca>

In response to Marshall Emm's humourous posting, and because I was able to check at least several of the points off on his list I offer the following.

You might NOT be an engineer if

You want a 8X CD ROM for Christmas, not because you know what it does but because you have enough money to get one and your engineer friends will be jealous.

You identify with Dilbert's boss.

You don't know how they can make beer cans so flimsy.

You dread Christmas because of putting together the kids' toys

Your son's Pine Wood Derby car falls apart before its first use.

If at Christmas you have to invite your engineer friend over for pizza and beer in order to bribe him/her to fix your X-mas tree lights.

Your Christmas tree is constantly falling over.

Your garage door opener seems to act like a phazer and you don't know why.

If you have never backed-up your hard drive and don't know the consequences of not doing so.

You threw out an appliance because of a broken power cord.

You think Radio Shack carries a complete line of electronic parts.

You failed an exam because your friend lent you an RPN calculator and you could not find the '='.

You took your car to the garage with a minimum \$50.00 charge to fix a loose battery post connection.

You need a friend to help you change a vacuum cleaner bag.

You think the local computer network is a waste of money and the university should spend more money allowing you to do library searches from the computer in your office instead. (this one actually happened)

You think PPP results from too much coffee.

Others?

Brian.

```
+-----+
| Brian Buydens, Computing Services, University of Saskatchewan |
| email: Brian.Buydens@usask.ca |
| VE5RDV |
+-----+
| Albert Einstein, when asked to describe radio, replied: "You see, wire |
| telegraph is a kind of a very, very long cat. You pull his tail in New |
| York and his head is meowing in Los Angeles. Do you understand this? |
| And radio operates exactly the same way: you send signals here, they |
| receive them there. The only difference is that there is no cat." |
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